



## HMCflex

The HMCflex unit offers a multitude of functions for the control and monitoring of conventional but also electronically-controlled diesel engines. You can individually configure the settings for very diverse applications and different engine variants.

### APPLICATIONS

Wood chippers

Crushers

Conveyor technology

Special-purpose vehicles  
and machines

**Transflective, backlit B/W display with automatic contrast adjustment**  
HMCflex ensures perfect legibility even under poor lighting conditions.

**UV-resistant, rugged PA6 housing. Secure installation with retainer or screw-fastening, 3 x M6**  
Fast installation and retrofit. Dependable functioning even in harsh environments.

**Communication via CAN bus with the network**  
Integration of conventional engines in existing CAN bus networks and applications.

**Variable settings enable a versatile use**  
Chipper automatic parametrisable  
Configurable feed and return stroke functionally  
Manuell control of feed an return stroke

**Pin assignments of the outputs are freely parametrisable.**

**Up to 5 high-current outputs.**

Flexible utilisation of the HMCflex functionalities, tailored to the customer application.  
Output parametrisation with the display menu or the convenient ehbTools software.  
No programming required.

**Pre-heat, by-glow and after-glow function, time- or temperature-controlled**  
Reliable starting process, even at very low temperatures. Less environmental impact and smoke generation.

**Total operating hours counter and resettable daily operating hours counter**  
Reliable information about engine running times and required servicing. Transparent summary of operating times.

**Password-protected menu settings and automatic logging of the last 20 faults**  
Access to relevant functions restricted to authorised personnel. Reliable reproduction of faults occurred.

## HMCflex TECHNICAL DATA

ehb5221\*

### Electrical data

Voltage range	6 – 32V (typ. 12 – 24V)
Power consumption	50 mA typical (bei UB 8 – 24V)
Fuse	All outputs are short circuit-proof
Operating temperature	-20°C bis +70°C
Storage temperature	-30°C bis +80°C

Inputs	PIN 01: Oil pressure as NO / NC, programmable, switching or analogue sensor
	PIN 02: Generator monitoring, terminal D+
	PIN 03: Temperature as NO / NC, programmable, switching or analogue sensor
	PIN 04: Various, NO / NC
	PIN 07: Auto start, NO / NC
	PIN 09: External stop, NO / NC
	PIN 13: Speed monitoring, terminal W, Sensor or magnetic pick-up

Outputs	All outputs are short circuit-proof
	PIN 02: Generator excitation, terminal D+, 0.5A
	PIN 06: Freely parametrisable, 6.5A (max. 1s) / 6.0A
	PIN 08: Freely parametrisable, 40A (max. 1s) / 20A
	PIN 10: Freely parametrisable, 70A (max. 1s) / 35A
	PIN 11: Freely parametrisable, 40A (max. 1s) / 20A
	PIN 12: Freely parametrisable, 70A (max. 1s) / 35A
	PIN 15: Freely parametrisable, 3.5A (max. 1s) / 3.0A

CAN bus interface	PIN 17/19: CAN2.OB, 250kBit, SAE J1939 / EEC1, ET1, EFL/P1, VEP1, AMB, DM1 fault messages / auto start, speed adjustment, optionally adaptable
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Operating hours counter	Integrated
Daily operating hours counter	Integrated

### Visualisation

Display Typ	Dot matrix LCD display, transfective Dark-blue representation on grey background
Resolution	16x2 characters, 5x8 dots per character
Brightness	>1000 cd/m <sup>2</sup>
contrast ratio (CR)	8,24
Background lighting	LED, white

### Mechanical data

Housing dimensions (L x W)	72 x 72 mm
Installation dimensions (W x H x D)	66 x 66 x 130 mm
Installation cut-out (W – H)	66 x 66 mm
Housing material	PA 6 30 GB, black, UV-stabilised
Weight	340 g
Installation	Retainer or screw-fastening 3 x M6
Degree of protection	Front side IP65 / IP67   Back side IP67 Housing IP67   Clamps IP67
Connection	Deutsch plug typ HDP24-24-19PE

### Test standard

Humidity	DIN EN 60068-2-3
Vibration	DIN EN 60068-2-6
Impact	DIN EN 60068-2-27
CE marking	according to Directive 2014/30/EU

### Accessories

Connection cable, 19-pole, 3m	ehb2268
Deutsch plug set	ehb1469
CAN dongle with ehbTools PC software	ehb5365
Starter kit, CAN dongle, ehbTools, connecting cable, power supply unit	ehb5378

